

ABSTRACT OF THE DISCLOSURE

Power supply current, sufficient to power a remote network device, is transmitted concurrently with a network data signal over a transmission line. A power-sourcing network device that can include a coupling circuit provides power and data to the remote network device. The coupling circuit can also be included in a stand-alone device. The remote network device (which can be a wireless access point) can separate the power signal from the data signal and use the power supply current to further process or retransmit the data signal. The power signal may be a low frequency relative to the frequency of the data signal, or it may be DC.